AFSC/ABL: Stock composition, timing, and spawning distribution of Yukon River Chinook salmon

Theme keywords: Biota, 002, Chinook salmon, stock composition, run timing, spawning distribution, Chinook salmon, stock composition, run timing, spawning distribution, Chinook salmon, stock composition, run timing, spawning distribution

Abstract: A radio telemetry study was conducted on Yukon River Chinook salmon (Oncorhynchus tshawytscha) during 2002-2004 to provide information on stock composition and run timing, and locations of important spawning areas. During 2002, 768 adult Chinook salmon returning to the basin to spawn were radio tagged in the lower Yukon River near the villages of Marshall and Russian Mission. Most (751, 97.8%) fish resumed upriver movements, with 270 fish harvested in fisheries and 481 fish tracked to upriver areas using remote tracking stations and aerial surveys. Stock composition estimates were developed for the 2002 chinook salmon return based on the distribution of daily releases of radio-tagged fish weighted for abundance and adjusted for fish harvested in fisheries. The chinook salmon run was composed primarily of Tanana River (20.9%) and upper basin (66.0%) stocks. Canadian-origin fish comprised the largest component of the return (53.4%), with most traveling to reaches of the Yukon River (50.7%) and only small numbers to the Porcupine River (2.7%). Canadian fish in the Yukon River returned to large headwater tributaries (35.5%), small tributaries associated with the main river (4.6%) and reaches of the Yukon River main stem (10.6%). Chandalar River and Sheenjek River fish (5.9%) were important U.S. stocks in the upper basin. Tanana River fish were predominantly Chena River, Salcha River, and Goodpaster River stocks (18.8%), with small populations located in other tributaries. Middle basin fish traveling to the Koyukuk, Melozitna, Nowitna, and Tozitna rivers were a minor component of the run (3.1%). Fish returning to lower basin tributaries (6.3%) were comprised primarily of Anvik River and Nulato River fish (4.8%). The two major stock groups, Canadian Yukon River and Tanana River fish, exhibited similar run timing with most fish passing through the lower river during the early and middle runs, although differences within regions were observed. In Canada, chinook salmon returning to the Klondike, Stewart, and White rivers were primarily early run fish, while upper headwater stocks displayed a later and more protracted run timing. Lower basin stocks consisted primarily of late run fish, although other stocks, particularly Canadian Yukon River fish, were also present during this period. During 2003, 1,097 fish were radio tagged in the lower Yukon River near the village of Russian Mission. Most (1,081; 98.5%) fish resumed upriver movements, with 271 fish harvested in fisheries and 810 fish tracked to upriver areas using remote tracking stations and aerial surveys. Stock composition estimates were developed for the return based on the distribution of daily releases of radio-tagged fish weighted by daily measures of abundance and adjusted for fish harvested in fisheries. The Chinook salmon run was composed primarily of Tanana River (18.9%) and upper basin (67.2%) stocks. Canadian-origin fish comprised the largest component of the return (55.4%), with most traveling to reaches of the Yukon River (51.5%) and only small numbers to the Porcupine River (3.9%). Yukon River fish in Canada returned to headwater tributaries (42.2%), including the Stewart, Pelly, Big Salmon, and Teslin rivers (32.2%) and reaches associated with the Yukon River main stem (9.3%). Chandalar and Sheenjek River fish (6.5%) were the principle U.S. stocks in the upper basin. Tanana River stocks were predominantly Chena, Salcha, and Goodpaster River fish (15.3%), with small populations located in other tributaries. Middle basin fish traveling to the Koyukuk, Melozitna, Nowitna, and Tozitna rivers were a minor component of the run (4.0%). Stocks returning to lower basin tributaries (4.6%) were primarily Anvik and Nulato River fish (3.9%). The two major stock groups, Canadian Yukon River and Tanana River fish, exhibited similar run timing with most fish passing through the lower river in mid-June, although several distinct pulses were also observed in early June and late June-early July. In Canada, Chinook salmon

returning to the Klondike River were primarily early-run fish, while upper headwater stocks displayed a later and more protracted run timing. Lower basin stocks consisted primarily of late-run fish. During 2004, 995 fish were radio tagged in the lower Yukon River near the village of Russian Mission. Most (958, 96.3%) fish resumed upriver movements, with 329 fish harvested in fisheries and 629 fish tracked to upriver areas using remote tracking stations and aerial surveys. Stock composition estimates were developed for the 2004 return based on the distribution of daily releases of radio-tagged fish weighted by daily measures of abundance and adjusted for fish harvested in fisheries. The Chinook salmon run was composed primarily of Tanana River (24.4%) and upper basin (55.2%) stocks. Canadian-origin fish comprised a substantial proportion of the return (47.5%), with most traveling to reaches of the Yukon River (46.2%) and only small numbers to the Porcupine River (1.3%). Yukon River fish in Canada returned to large headwater tributaries including the Stewart, Pelly, Big Salmon, and Teslin rivers (27.3%), small tributaries associated with the main river (8.2%), and reaches of the Yukon River main stem (10.7%). Chandalar and Sheenjek River fish (2.9%) were the principle U.S. stocks in the upper basin. Tanana River fish were predominantly Chena, Salcha, and Goodpaster River stocks (17.9%), with small populations located in other tributaries. Middle basin fish traveling to the Koyukuk, Melozitna, Nowitna, and Tozitna rivers were a minor component of the run (5.5%). Stocks returning to lower basin tributaries (7.6%) were primarily Bonasila, Anvik, and Nulato River fish (7.1%). The two major stock groups, Canadian Yukon River and Tanana River fish, exhibited similar run timing with most fish passing through the lower river in mid-June, although several distinct pulses were also observed in early June and late June-early July. In Canada, upper headwater stocks displayed a later and more protracted run timing. Lower basin stocks consisted primarily of late run fish, although other stocks, particularly Canadian Yukon River fish, were also present during this period.

FGDC, ESRI, and Biological Profile Metadata:

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Identification Information:

Citation:

Citation information:

Originators: John Eiler, Michele Masuda, Ted Spencer, AFSC

Title:

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Publication date: Unknown
Geospatial data presentation form: maps and data

Other citation details:

Eiler, J. H., T. R. Spencer, J. J. Pella, and M. M. Masuda, and H. H. Holder. 2004. Distribution and movement patterns of chinook salmon returning to the Yukon River basin in 2000-2002. U. S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-148, 99 p. Eiler, J. H., T. R. Spencer, J. J. Pella, and M. M. Masuda. 2006. Stock composition, run timing and movement patterns of Chinook salmon returning to the Yukon River basin in 2003. U. S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-163, 104 p. Eiler, J. H., T. R. Spencer, J. J. Pella, and M. M. Masuda. 2006. Stock composition, run timing and movement patterns of Chinook salmon returning to the Yukon River basin in 2004. U. S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-165, 107 p. Spencer, T. R., R. S. Chapell, T. Hamazaki, and J. H. Eiler. 2003. Estimation of abundance and distribution of chinook salmon in the Yukon River using mark-recapture and radio telemetry in 2000 and 2001. Alaska Department of Fish and Game, Division of Commercial Fisheries Regional Information Report 3A02-37, Anchorage. 54 pp. Spencer, T. R., T. Hamazaki, and J. H. Eiler. 2005. Mark-recapture abundance estimates for Yukon River Chinook salmon in 2002. Alaska Department of Fish and Game, Fishery Data Series No. 05-75, Anchorage, Alaska. 39 p. Spencer, T. R., T. Hamazaki, and J. H. Eiler. 2006. Mark-recapture abundance estimates for Yukon River Chinook salmon in 2003. Alaska Department of Fish and Game, Fishery Data Series No. 06-31, Anchorage, Alaska. 38 p. Spencer, T. R., T. Hamazaki, and J. H. Eiler. 2007. Mark-recapture abundance estimates for Yukon River Chinook salmon in 2004. Alaska Department of Fish and Game, Fishery Data Series No. 07-30, Anchorage, Alaska. 38 p.

Description:

Abstract:

A radio telemetry study was conducted on Yukon River Chinook salmon (Oncorhynchus tshawytscha) during 2002-2004 to provide information on stock composition and run timing, and locations of important spawning areas. During 2002, 768 adult Chinook salmon returning to the basin to spawn were radio tagged in the lower Yukon River near the villages of Marshall and Russian Mission. Most (751, 97.8%) fish resumed upriver movements, with 270 fish harvested in fisheries and 481 fish tracked to upriver areas using remote tracking stations and aerial surveys. Stock composition estimates were developed for the 2002 chinook salmon return based on the distribution of daily releases of radio-tagged fish weighted for abundance and adjusted for fish harvested in fisheries. The chinook salmon run was composed primarily of Tanana River (20.9%) and upper basin (66.0%) stocks. Canadian-origin fish comprised the largest component of the return (53.4%), with most traveling to reaches of the Yukon River (50.7%) and only small numbers to the Porcupine River (2.7%). Canadian fish in the Yukon River returned to large headwater tributaries (35.5%), small tributaries associated with the main river (4.6%) and reaches of the Yukon River main stem (10.6%). Chandalar River and Sheenjek River fish (5.9%) were important U.S. stocks in the upper basin. Tanana

River fish were predominantly Chena River, Salcha River, and Goodpaster River stocks (18.8%), with small populations located in other tributaries. Middle basin fish traveling to the Koyukuk, Melozitna, Nowitna, and Tozitna rivers were a minor component of the run (3.1%). Fish returning to lower basin tributaries (6.3%) were comprised primarily of Anvik River and Nulato River fish (4.8%). The two major stock groups, Canadian Yukon River and Tanana River fish, exhibited similar run timing with most fish passing through the lower river during the early and middle runs, although differences within regions were observed. In Canada, chinook salmon returning to the Klondike, Stewart, and White rivers were primarily early run fish, while upper headwater stocks displayed a later and more protracted run timing. Lower basin stocks consisted primarily of late run fish, although other stocks, particularly Canadian Yukon River fish, were also present during this period. During 2003, 1,097 fish were radio tagged in the lower Yukon River near the village of Russian Mission. Most (1,081; 98.5%) fish resumed upriver movements, with 271 fish harvested in fisheries and 810 fish tracked to upriver areas using remote tracking stations and aerial surveys. Stock composition estimates were developed for the return based on the distribution of daily releases of radio-tagged fish weighted by daily measures of abundance and adjusted for fish harvested in fisheries. The Chinook salmon run was composed primarily of Tanana River (18.9%) and upper basin (67.2%) stocks. Canadian-origin fish comprised the largest component of the return (55.4%), with most traveling to reaches of the Yukon River (51.5%) and only small numbers to the Porcupine River (3.9%). Yukon River fish in Canada returned to headwater tributaries (42.2%), including the Stewart, Pelly, Big Salmon, and Teslin rivers (32.2%) and reaches associated with the Yukon River main stem (9.3%). Chandalar and Sheenjek River fish (6.5%) were the principle U.S. stocks in the upper basin. Tanana River stocks were predominantly Chena, Salcha, and Goodpaster River fish (15.3%), with small populations located in other tributaries. Middle basin fish traveling to the Koyukuk, Melozitna, Nowitna, and Tozitna rivers were a minor component of the run (4.0%). Stocks returning to lower basin tributaries (4.6%) were primarily Anvik and Nulato River fish (3.9%). The two major stock groups, Canadian Yukon River and Tanana River fish, exhibited similar run timing with most fish passing through the lower river in mid-June, although several distinct pulses were also observed in early June and late June-early July. In Canada, Chinook salmon returning to the Klondike River were primarily early-run fish, while upper headwater stocks displayed a later and more protracted run timing. Lower basin stocks consisted primarily of late-run fish. During 2004, 995 fish were radio tagged in the lower Yukon River near the village of Russian Mission. Most (958, 96.3%) fish resumed upriver movements, with 329 fish harvested in fisheries and 629 fish tracked to upriver areas using remote tracking stations and aerial surveys. Stock composition estimates were developed for the 2004 return based on the distribution of daily releases of radio-tagged fish weighted by daily measures of abundance and adjusted for fish harvested in fisheries. The Chinook salmon run was composed primarily of Tanana River (24.4%) and upper basin (55.2%) stocks. Canadian-origin fish comprised a substantial proportion of the return (47.5%), with most traveling to reaches of the Yukon River (46.2%) and only small numbers to the Porcupine River (1.3%). Yukon River fish in Canada returned to large headwater tributaries including the Stewart, Pelly, Big Salmon, and Teslin rivers (27.3%), small tributaries associated with the main river (8.2%), and reaches of the Yukon River main stem (10.7%). Chandalar and Sheenjek River fish (2.9%) were the principle U.S. stocks in the upper basin. Tanana River fish were predominantly Chena, Salcha, and Goodpaster River stocks (17.9%), with small populations located in other tributaries. Middle basin fish traveling to the Koyukuk, Melozitna, Nowitna, and Tozitna rivers were a minor component of the run (5.5%). Stocks returning to lower basin tributaries (7.6%) were primarily Bonasila, Anvik, and Nulato River fish (7.1%). The two major stock groups, Canadian Yukon River and Tanana River fish, exhibited similar run timing with most fish passing through the lower river in mid-June, although several distinct pulses were also

observed in early June and late June-early July. In Canada, upper headwater stocks displayed a later and more protracted run timing. Lower basin stocks consisted primarily of late run fish, although other stocks, particularly Canadian Yukon River fish, were also present during this period.

Purpose:

This database contains data from a radio telemetry study conducted on Yukon River Chinook salmon (Oncorhynchus tshawytscha) during 2002-2004 to provide information on stock composition and run timing, and locations of important spawning areas.

Time period of content:

Time period information:

Range of dates/times:

Beginning date: 2002

Ending date: 2004

Currentness reference:

ground condition

Status:

Progress: Complete

Maintenance and update frequency: None planned

Spatial domain:

Description of geographic extent:

Yukon River Basin

Bounding coordinates:

West bounding coordinate: -164

East bounding coordinate: -133

North bounding coordinate: 68

South bounding coordinate: 59

Keywords:

Theme:

Theme keywords: Biota, 002

Theme keyword thesaurus: ISO 19115 Topic Categories

Theme:

Theme keywords: Chinook salmon, stock composition, run timing, spawning distribution

Theme keyword thesaurus: None

Theme:
Theme keywords: Chinook salmon, stock composition, run timing, spawning distribution
Theme keyword thesaurus: National Park Service Theme Category Thesaurus

Theme:
Theme keywords: Chinook salmon, stock composition, run timing, spawning distribution
Theme keyword thesaurus: ISO 19115 Topic Category

Place:
Place keywords: Alaska, Yukon River
Place keyword thesaurus: Geographic Names Information System

Place:
Place keywords: Alaska, Yukon River
Place keyword thesaurus: National Park System Unit Name Thesaurus

Place:
Place keywords: Alaska, Yukon River
Place keyword thesaurus: National Park System Unit Code Thesaurus

Taxonomy:
Keywords/taxon:
Taxonomic keywords: collection, multiple species, invertebrates
Taxonomic keyword thesaurus: None

Taxonomic classification:
Taxon rank name: Empire
Taxon rank value: Biovitae
Applicable common names: Carbon-based lifeforms

Taxonomic classification:
Taxon rank name: Kingdom
Taxon rank value: Animalia

Taxonomic classification:
Taxon rank name: Phylum
Taxon rank value: Chordata

Taxonomic classification:
Taxon rank name: Subphylum
Taxon rank value: Vertebrata

Taxonomic classification:
Taxon rank name: Superclass
Taxon rank value: Osteichthyes

Taxonomic classification:
Taxon rank name: Class
Taxon rank value: Actinopterygii

Taxonomic classification:
Taxon rank name: Subclass
Taxon rank value: Neopterygii

Taxonomic classification:
Taxon rank name: Infraclass
Taxon rank value: Teleostei

Taxonomic classification:
Taxon rank name: Superorder
Taxon rank value: Protacanthopterygii

Taxonomic classification:
Taxon rank name: Order
Taxon rank value: Salmoniformes

Taxonomic classification:
Taxon rank name: Family
Taxon rank value: Salmonidae

Taxonomic classification:
Taxon rank name: Subfamily
Taxon rank value: Salmoninae

Taxonomic classification:
Taxon rank name: Genus
Taxon rank value: Oncorhynchus
Applicable common names: Salmon

Taxonomic classification:
Taxon rank name: Species
Taxon rank value: tshawytscha

Applicable common names: Chinook salmon

Access constraints: Contact the Point of Contact for data request form.
Use constraints:
User must read and fully comprehend the metadata prior to use. Data should not be used beyond the limits of the source scale. Acknowledgement of NOAA, as the source from which these data were obtained, in any publications and/or other representations of these data is suggested.

Point of contact:
Contact information:
Contact person primary:
Contact person: John Eiler
Contact organization: National Oceanic and Atmospheric Administration (NOAA) Alaska Fisheries Science Center (AFSC) Auke Bay Laboratories (ABL)

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City: Juneau
State or province: AK
Postal code: 99801
Country: USA

Contact voice telephone: 907-789-6000
Contact facsimile telephone: 907-789-6094

Contact electronic mail address: john.eiler@noaa.gov

Contact instructions:
The e-mail address directs you to the person most knowledgeable about this data. If an alternative contact person becomes necessary, use the voice phone number for referral.

Data set credit:
Alaska Department of Fish and Game
Department of Fisheries and Oceans Canada
U.S.-Canada Yukon River Panel
Bering Sea Fishermen's Association
Yukon River Drainage Fishers Association

Native data set environment:
Microsoft Excel spreadsheets

Back to Top

Data Quality Information:

Logical consistency report:
No logical consistency test were run.

Completeness report:
Tagging data were double entered to check for errors.
Fish distribution data were reviewed post season to ensure accuracy and identify entry and interpretation errors.

Lineage:

Methodology:

Methodology type:
Field

Methodology description:
See methodology in following papers: Eiler, J. H., T. R. Spencer, J. J. Pella, and M. M. Masuda. 2006. Stock composition, run timing and movement patterns of Chinook salmon returning to the Yukon River basin in 2004. U. S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-165, 107 p. Eiler, J. H. and M. A. Masters. 2000. A database-GIS mapping program for summarizing salmon telemetry data from the Yukon River basin, Alaska and Yukon Territory. Pages 138-144 in J. H. Eiler, D. Alcorn, and M. R. Neuman, editors. Proceedings of the 15th International Symposium on Biotelemetry. Juneau, Alaska. International Society on Biotelemetry. Wageningen, The Netherlands. 733 p. Eiler, J. H. 1995. A remote satellite-linked tracking system for studying Pacific salmon with radio telemetry. Transactions of the American Fisheries Society 124:184-193.

Process step:

Process description:
See Source Information for cites of papers containing methodology.

Process date: Unknown

Back to Top

Entity and Attribute Information:

Detailed description:

Entity type:

Entity type label: Region Area

Entity type definition:

Table containing Stream name, Area name, Area, Region name, and Region

Entity type definition source:

Database developer

Attribute:

Attribute label: Stream name

Attribute definition:

Name of stream or creek.

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

None

Attribute:

Attribute label: Area name

Attribute definition:

Name of section of area, can be repeated.

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

None

Attribute:

Attribute label: Area

Attribute definition:

Discrete spawning tributary (NOTE: synonymous with Stock)

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

None

Attribute:

Attribute label: Region name

Attribute definition:

Name of region

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

None

Attribute:

Attribute label: Region

Attribute definition:

Section of Yukon River basin

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

None

Detailed description:

Entity type:

Entity type label: Captag Table

Entity type definition:

Table containing tag information

Entity type definition source:

Database developer

Attribute:

Attribute label: Study

Attribute definition:

Project # (107 in 2004)

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

None

Attribute:

Attribute label: Fish number

Attribute definition:

Identification number for fish; serves as a reference number for all samples, capture information, movement data, etc.

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

None

Attribute:

Attribute label: Category

Attribute definition:

Final status of fish based on tracking data, fishery recoveries, and spawning ground surveys

Attribute definition source:

Database developer

Attribute domain values:

Enumerated domain:

Enumerated domain value: 1

Enumerated domain value definition:

Distribution (located in terminal tributary or recovered in fishery within terminal tributary)

Enumerated domain value definition source:

Database developer

Attribute domain values:

Enumerated domain:

Enumerated domain value: 2

Enumerated domain value definition:

Lost (did not move upriver past gateway stations)

Enumerated domain value definition source:

Database developer

Attribute domain values:

Enumerated domain:

Enumerated domain value: 3

Enumerated domain value definition:

Died/regurgitated (did not move upriver past gateway stations)

Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 4
Enumerated domain value definition:
In-transit, Includes: non-terminal spawners; fish last located in non-terminal area but spawning in un-monitored tributary; unreported fishery recovery that could not be verified (e.g. not in vicinity of village); fish that died while migrating to area further upriver
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 11
Enumerated domain value definition:
US Fishery
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 13
Enumerated domain value definition:
US Sport Fishery (NOTE: Included with Cat 1 if caught in termianl area)
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 21
Enumerated domain value definition:
Can Fishery
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 23
Enumerated domain value definition:

Can Sport Fishery

Enumerated domain value definition source:

Database developer

Attribute:

Attribute label: Area

Attribute definition:

Discrete regional areas within basin

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

None

Attribute:

Attribute label: CDate

Attribute definition:

Capture date: day-month-year military time (e.g. 03-Jul-02 23:34)

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

None

Attribute:

Attribute label: Revised CDate

Attribute definition:

Conversion of CDate for Marshall fish tagged in 2002 to standardize their passage by Russian Mission with fish tagged at the Russian Mission site; based on conversion rate of 1.875 days (45 hours) for fish to travel the 150 km from Marshall to Russian Mission.

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

None

Attribute:

Attribute label: T_Freq

Attribute definition:
Transmitter frequency (e.g. 150.863= 863, 151.420=1420)
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
None

Attribute:
Attribute label: T_Code
Attribute definition:
Transmitter code ranging from 00 to 99
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
None

Attribute:
Attribute label: E_Tag
Attribute definition:
Fish tagged with external tag (Y or N)
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
None

Attribute:
Attribute label: E_Tag Type
Attribute definition:
External tag type: 1=stag
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
None

Attribute:
Attribute label: E_Tagnum
Attribute definition:
External tag ID number
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
None

Attribute:
Attribute label: CHour
Attribute definition:
Capture hour (military time)
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
None

Attribute:
Attribute label: CWeek
Attribute definition:
Week of capture (Week 24 = 6/6-12
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
None

Attribute:
Attribute label: CSite
Attribute definition:
Final status of fish based on tracking data, fishery recoveries, and spawning ground surveys
Attribute definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 1
Enumerated domain value definition:
Rapids fish wheel (north bank)
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 2
Enumerated domain value definition:
Rapids fish wheel (south bank)
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 4
Enumerated domain value definition:
Marshal
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 6
Enumerated domain value definition:
Russian Mission
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 10
Enumerated domain value definition:
Kashunuk River
Enumerated domain value definition source:
Database developer

Attribute domain values:

Enumerated domain:
Enumerated domain value: 11
Enumerated domain value definition:
Innoko River
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 20
Enumerated domain value definition:
Lower Tanana River
Enumerated domain value definition source:
Database developer

Attribute:
Attribute label: CMeth
Attribute definition:
Capture method
Attribute definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 1
Enumerated domain value definition:
fish wheel
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 2
Enumerated domain value definition:
set gill net
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 3

Enumerated domain value definition:
drift gill net
Enumerated domain value definition source:
Database developer

Attribute:
Attribute label: SPP
Attribute definition:
Species
Attribute definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 1
Enumerated domain value definition:
Chinook salmon
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 4
Enumerated domain value definition:
Chum salmon
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 10
Enumerated domain value definition:
sheefish
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 11
Enumerated domain value definition:
broad whitefish

Enumerated domain value definition source:
Database developer

Attribute:
Attribute label: Gender
Attribute definition:
Male, female, or undetermined
Attribute definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: M
Enumerated domain value definition:
Male
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: F
Enumerated domain value definition:
Female
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: U
Enumerated domain value definition:
not determined
Enumerated domain value definition source:
Database developer

Attribute:
Attribute label: Length
Attribute definition:
Mid-eye to fork of tail to nearest 5mm
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
None

Attribute:
Attribute label: Color
Attribute definition:
Fish coloration
Attribute definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 1
Enumerated domain value definition:
irridescent silver
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 2
Enumerated domain value definition:
dull silver
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 3
Enumerated domain value definition:
spawning coloration from blush (initial spawning coloration, dull silver with reddish tinges) to pronounced reddish, black)
Enumerated domain value definition source:
Database developer

Attribute:
Attribute label: Lice
Attribute definition:
Presence of sea lice
Attribute definition source:

Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: Y
Enumerated domain value definition:
Yes
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: N
Enumerated domain value definition:
No
Enumerated domain value definition source:
Database developer

Attribute:
Attribute label: Tagger
Attribute definition:
Code given to each tagger
Attribute definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 1
Enumerated domain value definition:
Brown
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 2
Enumerated domain value definition:
FWS (misc personnel)
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 7
Enumerated domain value definition:
Eiler
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 9
Enumerated domain value definition:
ADFG (misc personnel)
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 10
Enumerated domain value definition:
Holder
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 11
Enumerated domain value definition:
Spencer
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 12
Enumerated domain value definition:
Chapell
Enumerated domain value definition source:
Database developer

Attribute domain values:

Enumerated domain:
Enumerated domain value: 14
Enumerated domain value definition:
Driscol
Enumerated domain value definition source:
Database developer

Attribute:
Attribute label: Comments
Attribute definition:
General observations during tagging related to the fish
Attribute definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 0
Enumerated domain value definition:
None
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 1
Enumerated domain value definition:
tail splits
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 2
Enumerated domain value definition:
dorsal splits
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 3

Enumerated domain value definition:
other fin splits
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 4
Enumerated domain value definition:
operculum cut
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 5
Enumerated domain value definition:
descaled
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 6
Enumerated domain value definition:
severed dorsal fin ray
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 7
Enumerated domain value definition:
cut in front of dorsal
Enumerated domain value definition source:
Database developer

Attribute domain values:
Enumerated domain:
Enumerated domain value: 8
Enumerated domain value definition:

lethargic

Enumerated domain value definition source:

Database developer

Attribute domain values:

Enumerated domain:

Enumerated domain value: 9

Enumerated domain value definition:

old wound not healed

Enumerated domain value definition source:

Database developer

Attribute:

Attribute label: Cap_Lat

Attribute definition:

Latitude of capture location in decimal degrees (example: 61.90461)

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

None

Attribute:

Attribute label: Cap_Lon

Attribute definition:

Longitude of capture location in decimal degrees (example: -161.04881)

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

None

Back to Top

Distribution Information:

Distributor:

Contact information:

Contact person primary:

Contact person: John Eiler
Contact organization: National Oceanic and Atmospheric Administration (NOAA) Alaska Fisheries Science Center (AFSC) Auke Bay Laboratories (ABL)

Contact address:

Address type: mailing and physical
Address:
17109 Point Lena Loop Road
City: Juneau
State or province: AK
Postal code: 99801
Country: USA

Contact voice telephone: 907-789-6000
Contact facsimile telephone: 907-789-6094

Contact electronic mail address: john.eiler@noaa.gov

Contact instructions:
The e-mail address directs you to the person most knowledgeable about this data. If an alternative contact person becomes necessary, use the voice phone number for referral.

Resource description: Offline data

Distribution liability:
The user is responsible for the results of any application of this data for other than its intended purpose.

Back to Top

Metadata Reference Information:

Metadata date: 20081015
Metadata review date: 20100309

Metadata contact:

Contact information:

Contact person primary:

Contact person: Emily Fergusson
Contact organization: National Oceanic and Atmospheric Administration (NOAA) Alaska Fisheries Science Center (AFSC) Auke Bay Laboratories (ABL)
Contact position: Metadata coordinator

Contact address:
Address type: mailing and physical
Address:
17109 Point Lena Loop Road
City: Juneau
State or province: AK
Postal code: 99801
Country: USA

Contact voice telephone: Use e-mail to contact the metadata coordinator.
Contact facsimile telephone: 907-789-6094

Contact electronic mail address: AFSC.metadata@noaa.gov

Metadata standard name: FGDC Biological Data Profile of the Content Standard for Digital Geospatial Metadata
Metadata standard version: FGDC-STD-001.1-1999

Back to Top